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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,695	04/02/2004	In-Young Chung	8947-000073/US	9739
30593	7590 08/14/2006		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			TON, MY TRANG	
P.O. BOX 8910 RESTON, VA 20195			ART UNIT	PAPER NUMBER
1201011, 110 00000			2816	
			DATE MAILED: 08/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/815,695	CHUNG, IN-YOUNG			
Office Action Summary	Examiner	Art Unit			
	My-Trang N. Ton	2816			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 15 M This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 7-12,17-20 and 22 is/are allowed. 6) Claim(s) 1-5,13-16 and 21 is/are rejected. 7) Claim(s) 6 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine. 10) The drawing(s) filed on 02 April 2004 is/are: a) Applicant may not request that any objection to the or	vn from consideration. r election requirement. r. □ accepted or b)⊠ objected to be drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		, io.io.i. or io.iii. 10 10 <u>2</u> .			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received u (PCT Rule 17.2(a)).	on No ed in this National Stage			
		PRIMARY EXAMINER			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P. 6) Other:				

DETAILED ACTION

The Amendment filed on 5/15/06 has been received and entered in the case. In response to Applicant's amendment, the rejection made in the last Office action on the Yau et al reference is withdrawn. A new Office action has been made as follows:

Drawings

Figures 1-3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 13-16 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seo (Ref. No. 1999-2552) and further in view of Takashi (Ref. No. 62-157398).

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Seo discloses in the drawings a high speed bus interface circuit including a gate circuit (11), an output driver (13), a data channel (12), a precharging control signal to precharge the data channel (12) before a data bit is input (maintaining a transmission line in a termination voltage level in a standby mode before transferring a data signal).

However, this reference does not specifically disclose "precharging the data channel" as cited in claim 1.

Takashi teaches a semiconductor memory device for precharging an I/O line to the intermediate value between a power voltage and a ground voltage before latching.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ the teaching as taught in Takashi reference for the preliminary charge of the data channel in Seo since it is well known that before transmitting data, they commonly use a predetermined voltage to preliminary charge the data channel. Moreover, it is well known that the data channel is charged with a specific voltage for the purposes of providing data transmission at high speed.

The same motivation applied to claim 1 is applied to claims 2-4.

Regarding claim 5: the output driver includes first and second transistor (inherently seen in 13).

The same motivation applied to claims 1-5 are applied to claims 13-16 and 21.

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claims 7-12, 17-19 and 22 are allowable over the prior art of record.

Conclusion

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In view of the above noted new grounds of rejection not necessitated by Applicants Amendments, this action is non-final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

My-Trang N. Ton Primary Examiner Art Unit 2816